The King-fisher and the Yellow-Bird.

The Boy and the Goat.

1796-1799

Pathology.

Chapter 1. Lecture 31mo Decr. 21mo

Of Disease & ye Origin of moral & natural Evil. —

We come now Cont: to view ye Body & Mind in a diseased State — every thing appears to have co-operated with our Creator to cut short ye Life of Man — Diseases are absolutely necessary - Diseases ① lead us to ye Study of Anatomy - and thus view ye Works of our Creator - ② They lead us to ye Study of ye vegetable &c. Kingdoms - 3. They furnish an Opportunity of observing ye moral Faculty - 4. They excite to Benevolence - Charity &c. 5. They are necessary to our rushing Straths - 6. They render our Passage out of Life less terrible - 7. ..... —

Pathology is a subject that has been but little cultivated - Pardons &c. who have written have suggested Thoughts quite abound - In ye Wilderness that is before me, therefore I proceed without either a Guide or a Compass - By Pathology I mean, that Subject which teaches us ye History - Seat - Causes &c. of

Diseases — Of ye Causes of Diseases. There are Remote — Predisposing — occasional or exciting & Proximate — i.e.. We will say — Cold is ye Remote Cause — Debility induces — ye Predisposing — Heat — ye exciting and irregular action in ye Arterial System ye Proximate Cause. — They are all Links of one Chain — ye one are not to suppose ye This Chain of Causes exists in every disease — All Diseases, depends upon a Predisposing Debility — from Them Except ye Local. — Even contagious diseases are not without a Predisposing debility — This Debility is direct and indirect — We will say a Scale of 50°. An Abstraction of Stimuli produces direct — an increase of Stimuli produces indirect debility. —

'Tis unfortunate for Medicine ye Then States have been so much confounded — The Range of Predisposition may be said to be 10°. — The more sudden ye Abstraction of Stimuli, ye more ye Excitability is accumulated — and I believe with the ingenious Dr. Brown ye two Men die without carrying with them to Their Grave a great Portion of Excitability — Now I believe die of old Age —

No more happens in a dead State than happens to a silent Bell - both are dead merely from ye Attraction of Stimuli - It is as absurd to say the Body possess an inherent Vitality, as that a Bell possess Sonorability or a musical Instrument - Musicability - Let us remember that the Government - Medicines has no half Truths - Debility is ye Cause of moral as well as Physical Evil - Evil of all Kinds, consists in debility - In ye Body, Debility is acute and chronic - Debility is a negative Quality, it possess nothing positive - Small Pox - Measles - Yellow Fever &c are misplaced Evils - They are an Error Loci - We know ye Breath when swallowed sometimes enters the Trachea and produces Dinary and at times instant Death - now who will say that the Breath possess any malignant Quality - it is altogether an Error Loci - because had it gone down ye Oesophagus - it would have been gratefull to ye Stomach and tended to nourish ye Body - If it was possible to bottle up the Contagion of ye Yellow Fever we would procure a most delightful

and Pleasant Cordial — of this I am firmly persuaded —

Is Pain a positive Evil? no it is not — it is a diminished state of Health. —

Moral Evil — this consists only in debility — Every Vice is nothing but a misplaced Virtue — Debility in ye Will has produced all ye Evil that exists in ye World — Evil has nothing positive — 'tis altogether negative owing to an Attenuation of Good — Debility is ye inviting Cause of irregular action — Disease, disease Gent: consists in irregular action — Disease is always partial — I know of no Disease which produces irregular action in every Part — In Fever — ye sanguiferous System is affected — In Dysentery ye Bowels — Irregular Excitement discovers itself in many Parts — Pain is a mere Symptom — There may be disease without Pain; but there cannot be Pain without disease — I have formerly said there is but one Fever in ye World. be not surprised — startled at this Gent: — follow me and I will say there is but one disease in ye World — The proximate Cause of Disease is irregular

convulsive or wrong action in y^e System effected.—

This Gentlemen is a concise View of my Theory of disease — some have called me a Brunonian in Medicine — they might as well have called me a Mahometan in Religion — Dr. Brown and I differ in y^e most material Points — he divides diseases into Sthenic and asthenic — I say there are no asthenic diseases — all are originally Sthenic — I remove disease by 1. taking down excessive action — 2. By creating a new action. 3. By restoring y^e System —— I call upon you Gent: at this early Period, either to approve or disapprove of my Theory — unless you dismiss me now I shall certainly get you entangled. —— Excess of action does not constitute Disease — by much Exercise much action is induced but no disease — Neither is Debility Disease — it is only Predisposition to disease. ——

Lecture 32^d Dec^r 22. —

We now come to inquire into y^e remote Cause which lay y^e Foundation for disease — It has been ably obtained that as soon as a Child comes into

The World it inhales ye lurking Principles of death &c.—
1. Children are often predisposed to Disease in ye Time of Delivery, from ye Ignorance of ye Midwife &c.—
2. By washing ye Body of the Infant in Spirits - Wine or even Soap and Water — 3. The first diet of Children with Spices &c. — 4. Dress of Children — as Stays - Swaddling Cloths &c. — 5. Use of ardent Spirits for the Cure of Cholic &c. then lays ye Seat of Disease # 6. Sucking bad Milk — 7. Manner in which Children are educated — close Rooms - confinement - Tyranny Schoolmasters — 8. Amusements of Children - subjecting them to Falls - Bruises &c. lays Seats for Diseases - particularly Hydrocephalus Intern. &c.

The Sensible & insensible Qualities of ye Air - Induce Disease - 1. alternations of Heat and Cold - 2. Effluvia from ye Human Body & Marsh Miasmata — 3. Effects of Oxygene produces disease — Insensible Qualities of ye Air - Heat is a universal Stimulus — Heat and Cold are Relative Terms - what will please us may be a powerful Stimulus to many Animals &c. — Heat in Effects shows itself strongly in 1. the Arterial System — 2. When combined with ye Solar Rays, it acts upon ye Brain by sometimes producing Inoculation — 3. It acts upon the nervous System

acquired shews itself by producing 7. Hysteria - Syncope &c. - 4. In the muscular System it produces Langour - weakness - Tetanus &c. - 5.8 - - - 6. It acts upon the Skin in producing universal Sweat - in a high degree it produces a preternatural Dryness of the Skin - it produces Pimples on the Skin - it makes the Skin of a brown appearance - 7. It increases y^e venereal Appetite - 8. It acts upon y^e Blood in producing a Tendency to putrefaction - it also increases y^e Secretion of Bile which corrects this putrefactive Tendency - 9. It affects the Eye Sight, hence in warm Countries the Frequency of Gutta Serena - Cataracts &c. 10. It affects y^e moral Faculty - 11. It is less unfriendly to old than young People - Excess of Heat will sometimes produce immediate death - a Sudden abstraction of it will produce Pain - It is remarkable & true y^t one Season will generate and another produce diseases - for Instance - most moderate Weather succeeded by cold produces diseases - hence y^e Propriety of y^e old Saying "a green

Christmas makes a fat Church-Yard"— No
Season[10] be necessarily unwholesome, provided
People were guided by Reason — I conclude, 1st
Heat produces Disease only in Consequence
of some Irregularity in some Respect[12].—
Heat with Moisture[13]— Wet Seasons are healthy
provided there be no Exhalations — Rain will
sometimes produce Exhalations by making a pure
Seum on Ponds — Dr. Davidson gives a satisfactory
Instance of this — I conclude 2d not an gene-
rally healthy —— Cold — It has been supposed to
act as a Stimulus — it is erroneous — cold is a nega-
tive Quality — it is only an Attenuation of Heat — it is
a Sedative — This I infer from it's producing a
weak low Pulse — weakness &c 2. By its Effects be-
ing analogous to Bloodletting — Purging &c — Cold
therefore produces Debility — Cool Air does not
act as a Tonic in warm Weather — It only acts
by taking down 1st indirect debility induced by
Heat — How does bloodletting raise 1st Pulse 2. I an-
swer by relieving it from a state of Depression —
Emetics act by relieving the System of the too great

~~Stimulus~~ of ye Bile &c. Cold acting - produces
1.. In ye natural System a weak low Pulse &c.
2.. In ye nervous System, a dullness of Sensation &c.
3.. In ye muscular System - Langour - Debility &c.
4.. Increase of Appetite - hence Cattle eat more in frosty weather
5.. It makes the natural Appetite ——
6.. It renders sweating difficult - it increases ye Urine
7.. It is unfavorable to Union
8.. It affects ye moral Faculty. ——

Lecture 33d Decr 23d 1800

9.. Cold is said to produce Scurvy; but I say other Causes must co-operate to produce it.
10.. Cold in a certain degree produces Palsy - in a greater degree - by producing Relaxation or Torpidity: it induces a Redness. - In a still higher Degree it produces Gangrene or total Disorganization
11.. It acts most powerfully in ye Sleeping State - hence Fevers more frequently occur in ye Night.
12.. It acts most powerfully on ~~an empty~~ the Body when ye Stomach is empty -
13.. It acts most powerfully on old People.
14.. It acts powerfully on such People in a State of debility - hence Loss &c of such People apt to get frostbitten. -
15.. It acts powerfully on Drinkers of Spirituous Liquors

16.. It acts but Indirectly as Chiltonn – The following in Support of it is a Fact. An Indian Woman was found dead in Consequence of an Excess of Cold with a living Child at her Breast. –

There are 2 ordinary Effects of cold – A Season in which y^e Weather is variable is unhealthy – yet a regular cold Climate is a healthy one – Heat succeeding a short cold produces inflamatory Fevers – succeeding a long cold, it produces Chronic Fevers – Cold succeeding Heat produces Cholera Morbus. Cold Thereon is only unhealthy when succeeded by Heat or combined with Moisture ——

It has been observed that People on the Potomack and that Way dont bear Bleeding – I ascribe it wholly to their luxurious Manner of living – I have seen Fevers in luxurious Citizens, run thro y^e inflamatory Stage sometimes in 24 Hours. –

The Citizens of Pennsylvania are now in y^e Climate y^e y^e Citizens of London were in the Time of D^r. Sydenham, when Bleeding and small Beer cured all their Fevers –

Cold not but will produce Catarrh &c

The cold Hand of a Physician will sometimes produce a general Pagan on the Patient- Moisture counteracts ye sedative Effects of cold by carrying off ye Heat of ye Body- Sailors we know always complain more of Cold when the Weather is moist- and indeed Gent: you must all have observed it.— The Mouth and the Feet are the Avenues thro' which we receive nine-tenths of our Diseases- I except one Disease Gent: which is ye venereal Disease- ha! ha!-

June- From many calculations and observations is ye most healthy Part of ye Year- therefore, Gentlemen when any of you wish to take an Excursion, always choose ye Month of June.- Night air is most favorable to produce Colds- on account of Moisture being combined with ye air- (a very cold Day.—

Lecture 34th Dec. 26th

We come now to consider Impregnations of Air as remote Causes of Diseases.- 1. Marsh Effluvia is a fruitfull Source of Disease- Heat and

Moisture are Spiritially necessary to ye Production of it. Heat must be above 80°. — Effluvia from Water alone will not be unwholesome — a Summer so hot as Infectly to dry the low Grounds, or so Infectly wet as totally to overflow ye low Grounds are very healthy. Therefore it is only such Seasons as are not so hot as to dry up — nor so wet as to overflow, that are sickly. —— The Effluvia from Vegetable Putrefaction is ye one which most generally produces Disease. 2. I do not deny but Animal Putrefaction will sometimes produce Disease — but that it is seldom a Cause, there are an innumerable Number of uncontrovertable Facts. if it were, what would long since have become of ye Cities of Edinburgh & Madrid &c also Many Families near Livery Stables &c &c — Upon what Part of the System do these Exhalations act? I answer 1. It first acts upon ye Arterial System as a Stimulus 3. 2. Upon ye Brain and nervous System 4. 3. Alimentary Canal. Liver 5. &c. — These Facts, Gentlemen, add Force to ye long since exploded Doctrine of Specific Contagions. Dysentery depends upon ye same Contagion as a Bilious Fever, it is justly called by D. Sydenham ye "Febris introversa". Bilious Cholic also upon ye same Contagion 6. —

Dysolaus Blood has been supposed to be owing to Putrefaction - it is not so I can - it owing merely to ye powerfull increased action of ye Solids - Influenza is always more obnoxious to Health in ye Mornings and Evenings - In ye middle of ye Day it is carried off by ye Sun and Air - Some Hours after Sunset it is as wholesome nearly as in ye Day Time, because then the Influenza is precipitated -

2. Human, or animal, Miasmata - is also a Cause of Disease - It is favored by 1. Uncleanlyness - 2. Confinement in a crowd - 3. Low, vapid, vegetable Diet - 4. Putrid animal diet - 5. Scanty diet - 6. The Breaths of People of different Nations mixing together - Can the Influenza of a Body, generated within itself, produce a Fever in itself? I answer Yes - - - 1. Cold Weather is favorable to ye Spreading of contagious Diseases in Consequence of Contagion being comunicated in Rooms shut up from ye cold - 2. Woolen and cotton Clothes will retain and spread ye Contagion - Wood will also retain ye Influenza - You should always remove all Curtains unnecessary Clothes from ye Room of your Patient - he should be removed into the middle of the Floor, as ye Walls of a Room will retain the Con-

tagion, and be a means of keeping up your Patients Diseases - White washed Walls will not retain ye Effluvia -
3. Effluvia exists itself chiefly on Bodies in a debilitated State - The Stimulus of Distention, as Pregnancy, is certainly unfavorable to Contagion —
The Fevers produced by human Effluvia are 1. Typhus Mitior 13. 2. Plague 14. They are different Grades of one original Fever - 3. The Dysentery, which is sometimes like ye Jail Fever communicates by human Effluvia. 5. Influenza - is certainly a Fever of animal origin — The Fevers depending on Human Effluvia may be known from Marsh by occurring at all Seasons and not being attended with a small Degree of Inflam. Discharge of Bile &c. whereas those from Marsh Effluvia occur in the Fall and are attended with large Secretions of Bile &c. 15
1. Diseases often arise from a Quantity of Phlogisticated Air - 2. Air is unwholesome when drenched from Sulphur - as from Coal - Mines &c. - 3. Air of certain Manufactories, especially those which volatilize Lead - Arsenic &c. is unwholesome - 4. Late Evening Air - 5. Samoan 16. Winds - owing to ye great Quantity of nitrolic Acid they contain - 6. Cherokee Winds -
7. A Quantity of Oxygene dispose to Diseases of the inflamatory Kind - 8. M. Brun mentions another

which acts only on Animals – It is a Plain near the Nile – Tho' it is now uncultivated – with them Observations we finish our Accounts of impregnated Air.

Lecture 35th Dec. 27th to 38

We now come Next to consider the Influence of particular Situations in producing Diseases. 1. A new Country is always healthy until the Timber which excludes the action of the Sun upon Marshes be cut down but from the Time it is cleared until cultivated it is sickly – Chief diseases of these Country Airs are – Inflamatory – bilious diseases – & Dysentery – 2. Cities and Towns – they are the Bulls and Graves of the human Species – they are unhealthy in Consequence of dirty Streets. action of the Sun upon the Pavement &c. 3. The Nature of the Soil of either Town or Country – 4. Mountains – 5. The Vicinity of a Town or Country to Marshes – but the Miasmata may be checked by planting Trees between the Marshes and Towns – 6. Vicinity to Deserts and the Seashore – The Sea Shore Air is confessedly to Asthma – Pulmonary Consumption and Rheumatism – Inhabits owing to the Mixture of the Land and Sea Airs – This Seashore Air is medicinal

to all diseases except those already mentioned — 7. Cellars — 8. Newly planted Towns, owing to the moist air —

Change of Situations produces diseases. 1. Migrating from a cold to a hot Climate — 2. From marshy Countries to a Town — 3. Old People moving from marshy to more airy healthy Situations, are very apt to die — owing to y^e abstraction of y^e Stimulus of y^e Miasmata — Persons, therefore lent are only a relative Term — they are only unhealthy when misapplied — 4. Persons on long Voyages coming near y^e Shore are apt to get Catarrhs from y^e Mixture of Land and Sea Air — 5. I have taken some Pains in endeavouring to find out whether Thunder and Lightning had any Effect in producing disease, independent of y^e Change of Air — But I never could meet with but this single Instance — a Lady with whom I crossed the Atlantick, was always affected with a severe Headache in Time of a Thunder Storm — one Day a Storm came on — her Head began to ache & she was much frightened — after it had rained and thundered some Time, I went upon Deck and found the Clouds

began to disperse - with this I went and told her the storm was over for the Sun began to make his appearance - no said she it is not over yet - we shall have more Thunder, for my Head still aches - immediately this followed a very loud Clap - now said she it is over we shall have no more Thunder - and so it was - This Head ache never deserted her — 6. Head-aches in many are produced with y rising & setting Sun — 7. Light and darkness - 8. Sounds produce disease in some - I knew a Person killed by Sounds in y Time of y late War - Fevers of an inflamatory Nature are mitated by y Tolling of Bells. — The Influence of y Moon is felt by all animated Nature 8. - 1. Fevers are influenced by its action - 2. Its Influence is perceptable in Epilepsy - 3. Worms - 4. Lunacy. - 5. Coma ..... - 6. Somnolency is often produced - a Case very remarkable of this Kind is related by D. Manly - in attacks y Person at no stated Period - 7. Calculus - 8. Births are hastened says D. Kilpatrick - 9. Syncope is often produced in Commencement of it - 10. The Gout is not unfrequently produced. ——— ———

Lecture 36th Dec.r 28th.—

1. Specific Contagions.— They are called Specific on account of their affecting particular Parts of the Body.— 1. Small Pox is known by a particular pain at the Stomach.— Pain in y.e Back.— &c.— The usual Time of y.e Contagion of the Small-Pox laying in y.e System is 14 Days.— Tho' in Instances it has remained much longer.— 2. Measles.— its Contagion shows itself upon the Skin and Lungs.— for both these diseases, see more in the 2.d Vol: of my Inquiries.— 3. Cynanche Maligna.— 4. Scarletina anginosa.— The Contagion of both these diseases have been supposed to be the same, but they are certainly different.— they both act upon the Mucous in the Throat.— 5. Hooping-Cough.— vide Dr. Cullen and Dr. Johnston.— 6. Influenza.— it does not depends upon the sensible Qualities of the Air. 'tis y.e most unusual Epidemic we are acquainted with.— 7. Chicken-Pox.— 8. Miliary Fever.— this was supposed to depends upon Contagion.— but it certainly originates from

a hot Regimen — The Small Pox is influenced by y^e air - it is more inflamatory in Winter and Spring - in the Summer Months it puts on bilious Symptoms — The Scarlatina anginara is not much influenced by the air — No two of these diseases can exist in y^e arterial System at the same time - I would as soon believe that a Horse could trot and gallop at the same time as that they could exist together — When two or three of these diseases prevail at the same time, one will always predominate over the others — I have supposed that there was a kind of Monarchy in diseases all paying Homage to the reigning disease - Such your Eyes attentively fixed, Gentlemen upon the prevailing Epidemic - it is this will explain all anamolous Symptoms — Of this Sydenham - Morton - Huxham - Russell & others were all sensible y^e — Epidemics have different Appearances, according to the Time in which they appear — An Epidemic I have described, attacks with all the Fury of

a Savage; and retires with all the Politeness of a civilized Sir - vide my 4th Vol: of Inquiries. - Contagions do not affect any Person at the same time of this we have many Instances - There is frequently a Variety in it's Volume - This I cannot well explain. Probably 'tis owing to more or less Oxygene - some affect as deep as mosaic Work - Thus as lightly as water Colorings - Contagions sometimes only affect People of particular Nations - sometimes only those of a certain Color - vide my 4th Vol: of Inquiries. -

Of Aliments, in producing diseases - 1. Fish. This was the first Food of Man - many Nations living solely on it - It contains but little Nourishment - 'tis said to lessen the venereal Appetite - Effects of a Fish diet only are - Change of Color - Lues - Leprosy &c. - Land animal diet solely, will produce Leprosy - Fatid Breath - Diarrhea - Diseases of the Skin - Scorbutic Affections &c. a remarkable Instance of this Kind was communi-

cated to me by the late Dr. Morgan —
For particulars on this subject I refer you
to Dr. Robertson's Notes on the History of Charles
the fifth — Aliments and Drinks in pro-
ducing diseases act by their Quantity and
Quality — 1. From Quantity by distention
in bringing on Atony and consequent
Dyspepsia — 2. Quality — two much ill Aliment
Thereon in produces all the diseases of Ple-
thora — It is difficult to determine the
Quantity that is necessary to be taken — I
have formerly said many Circumstan-
ces influence it — I should suppose from
4 to 6 Pounds, sufficient for Those who
lead sedentary Lives — You will often
Gentlemen, be called by your Patients and
Friends of y^e Patient — what they must eat —
they have no appetite — tis by no Means ne-
cessary they should eat — for y^e stimulus of
the inflamatory Fever will support them
but in diseases of debility you should
give them cordial, nourishing Food —

A too small Quantity in producing
diseases is evident in Boarding Schools.
Colleges &c. - Attentions in a great de-
gree produces disease - This naturally
leads me to enquire into Famine - it
produces same Pain in the Stomach,
from y^e Effusion and acrimony of the
Bile - Offensive Breath - Watchfullness -
Haemorhagies - Swelling of y^e Faces - Ma-
nia and death - Hunger produces strength
in many animals - in a small degree
it produces strength in Man - Hence the
propriety of "Hunger will break thro' Stone
Walls" - In what Manner shall we ac-
count for its producing strength? It is
owing to the Stimulus of y^e desire of
Life acting upon the accumulated E-
stability. ——— —

Lecture 37th Dec^r 29^no

Of Vegetable diet - This constitutes the Food of
a large Portion of Mankind - 1. Farina, most
nourishing - 2. Roots and Fruits, these are nou-

rishing in proportion to the Quantity of Saccharine Matter they contain — The Stones of Fruits are apt to produce Cholic and sometimes death — A constant Vegetable diet generally produces — Weakness — Swellings — Costiveness — Dysentery — &c. — It lessens the venereal appetite — hence a happy diet in Monasteries and Seraglios — It lessens the Ferocity of the Mind. hence of Service. hence of use in Insanity — It prevents dreaming — — — — —

Diseases are sometimes produced, independent of the Quantity and Quality — from the Manner of cooking — Meat ate soon after it is killed is difficult of digestion — when it becomes old or any-wise rancid, it is apt to produce diarrhea — Diet taken into the Stomach without sufficient Mastication or by the Manner of Bolting is productive of disease — hence low Spirit of the Gout: in Dyspepsia — Fish when kept a few days and ate will bring on diarrhea and Eruptions diseases of the Skin — Oysters roasted hard, are unwholesome — Eggs done hard are also unwholesome — Vegetables tending to Putrefaction produce diseases — Bread half baked

is not unfrequently a Source of Cholic - Toasted Corn I have often known produce disease - Small Meals in Sickness are most Essentially necessary - A sudden Transition from animal to a vegetable diet, produces a very great Change in the System and often times Disease - a sudden Transition from a vegetable to an animal diet is productive of still more dangerous Consequences - it is to this sudden Change, that Relapses in Convalescents are often owing - from living some Time on Vegetable diet and suddenly eating a hearty Meal of Animal Food - vide an Essay in my 1.st Vol. of my Inaug: and Dissertations —— I am so sensible of these Remarks Essent: that I always make my Patients laboring under Chronic diseases, dine only on one Dish, let that be what it will - Aliments too hot or too cold will produce disease - Namely of Food often disorders y.e Stomach and thereby the whole System - Some Vegetables excite the same Symptoms many Fear - as Cucumbers - Radishes - Melons &c.a In these Cases it appears as if the

Stomach had forgot its old acquaintance. but by a little use becomes familiar - Aliments often produce diseases by laying in an indigested state in the Stomach - I was once called to visit a Lady, labouring under incessant vomiting - Pain in the Stomach &c - I tried all the Remedies, indicated in such Cases; but all were of no consequence - I at length gave her a gentle Emetic, which discharged a lump of roasted Cheese - which had been on y^e^ Stomach for some Time & when discharged, was followed by an Abatement of all the Symptoms - of Course Gent: it is of material Consequence to enquire into the diet of your Patient for some days back^s^ — Victuals cooked in Copper or Lead Vessels, are often productive of dangerous Consequences - The late Dr. T. Bond and his Lady died within a few days of each Other - it was said from this Cause - Aliments become unwholesome from certain extraneous Matter being contained in them - The diet of Fowls and Animals, some

Time before they are killed - I have seen serious
consequences arise from eating a Pheasant, as
had ate the Laurel. The Students of Princeton
College in N. Jersey were all seized with a
Diarrhoea, the Night after eating a hearty Din-
ner of Pie made of Pigeons that had been ea-
ting Poke-Berries — Diet of such Meat is un-
healthy - hence the Healthiness of Country Children
who live on salt Meat. There is oftentimes an
Idiosyncrasy in some People with Respect to diet —

Lecture 38th Dec.r 30th —

Diseases are often induced from the Use
of Condiments - 1. Salt. many live without ever
tasting it - when those unaccustomed to it use
it, 'tis apt to produce Vomiting and Purging.
2. Vinagar in small Quantities is a good
Condiment; but when used largely, it produ-
ces many diseases - 3. Mustard - it produces
Dyspepsia, tends to Inflammation &c. - 4. Sugar -
Tho' it most gratifull and nourishing of all
Condiments - yet in Excess produces diseases -
a hint to Parents not to indulge their Children
in sweet Meats - 5. Honey and Molasses - in cer-
tain Quantities will produce dyspepsia -

5. Thirs, They induce dyspepsia —

Coffee and Tea. They produce diseases, but it is in consequence of their being made too strong[5] of themselves they are not nourishing. They are Stimuli[6] — Coffee, when used strong is very apt to induce Vertigo — Simmons says it lessens the venereal appetite; but whether it will, we have not yet sufficient Documents to prove — Tea and Coffee have but about a wonderfull Revolution in Europe. They are taking the Place of Spirituous Liquors in many of the Public Houses in Europe. What a Change would this produce in America !!! — They will support a Person under any Fatigue of Body or Mind better than any other Drink whatever — They are perhaps a stepping Stone, for the drinkers of Spirituous Liquors to descend to a natural State of Temperance —

Effects of Drinks in producing Diseases.

1. Water — This is the Drink of nine tenths of mankind tis the Beverage of Nature — It produces diseases by 1. Its sensible Qualities — In the first Place from its Coldness it affects the Teeth — Dr. Spence

an eminent Dentist in this City has informed me, that he draws 3. Teeth in Summer to one in the Winter[8]. - 2. Cold taken into the System, when the Body is unusually heated, produces Pleurisy - Inflammation of the Stomach - Lues - Mysentery &c. - Its common Effects in this Country is first a violent Spasm, succeeded by Syncope &c. - [9] vide my 1. Vol: Inq: Volumo. - 3. Simple, pure Water when warm seldom produces disease[10]. - 4. Extraneous substances introduced into y Water - as Lime Water - this produces Vomiting and Purging — Water is pure in proportion to y Scarcity, in forming Soap-Suds[11]. - 5. Large Draughts of Water, unwholesome - it will produce Dyspepsia - 6. Swilling in time of eating is altogether unnecessary and quite ridiculous -

2. Wine - nourishing and stimulating - its acute Effects are Drunkeness &c. - Its chronic Effects - increase of Fat - produces Gout[12] - most apt to produce it in moist Countries - All Wines most apt to produce it in Proportion to y Quantity of acid they contain - hence y low Wines the most unwholesome they - 3. Beer - It is unwholesome

in proportion to ye Quantity of Acid & Spirit it contains - It has been said to produce Gravel - if it does it is from ye acid - as the Basis of ye human Calculus has been proved to be an acid - 4. Cyder - it produces Gout 13. - 5. Ardent Spirits - Here had I an hundred Tongues, armed with all ye Eloquence of ancient and modern Days, it would all prove insufficient to describe ye Arcana induced by this detestable Liquor - (vide 2da Vol: of my Inq: Observ:) They destroy all moral Qualities 14. The intemperate use of them seldom fails of producing Death nor do their Effects end with death - for they contaminate the very Ground ye covers them -

Circumstances which induce People to use them are, vast and bold - long Intervals between Meals - hence the meridian Bowl & ye morning Dram - hence Gent you see ye necessity of eating frequently, tho it be little at a Time - Gentl - Debt - much Company - 15 taking Medicines in Spirits - Breeding Ladies &c. all produce a Love for Spirituous Liquors - It may appear strange that I should give such reasons for ye

the use of them - 'Tis happy for Mankind that the Doctrine of Dr. Brown has met with a Check both in Europe and America. —

Lecture 39th Jan 2y 2do 1797. —

Drs - Who would suppose that the Coming of Menstrual Income, would have any Effect in Inducing diseases? Drs in Inducing diseases are 1. From the Quantity - 2. Quality - 3. Fashion - Two Thirds of the diseases of the Autumns in this City are caused by too thin clothing! - Many change their clothes with the Seasons of the Year; but it is absurd - they should be changed with every change of Weather - In Children diseases are occasioned from clothes being too tight round the Head or Breast - as Swadling clothes - tight Breeches - tight Shirt Collars are Causes of disease* - I have seen known tight Buckled Shoes Induce disease** - It is remarkable that any Complexion of the Body is changed by Clothing - In contemplating the Peculiar and many other peculiar Drs of Mankind we must conclude them to be a variable Part of the Creation 3. Flannel Shirts worn next the Skin will prevent many diseases! as also will Cotton - Every different is Linnen - when worn long it favors the Production of Lice and pestilential diseases. —

Poisons. — as I formerly observed, a relative Term — They produce diseases according to the Part they act upon — 2. according to the Rate — Poisons kill by bringing the whole System into Sympathy 5. The vegetable Poisons are numerous — as Night. Shade — Cicuta — Belladona — Strammonium — Datura Stramonium 6. Dea — — There are some less deadly — Mineral Poisons — as Arsenic Dea — — Aerial — as ye Samoon Wind Dea — — Some suppose these Poisons produced death by acting on ye Muscular System — some by its destruction of the Living Principle —

I am disposed to believe that different Poisons act upon different Parts of the Body 8. for instance — 1. Some act solely on Mind — This shews the Independence of Mind with the Body — and that they act upon the Body by Sympathy or Implantation — 2. Many produce death suddenly by acting on the Brain — as Stramon: — 3. Some on the Nerves — 4. Some act on the Sanguineous System — as the Viper — 5. Some on the Lymphatic System — 6. Some on ye Skin — 7. Many act on ye Bowels and Stomach — 8. Some act on all the Systems mentioned — as Opium — Contagion of the Plague — 9. Some on ye Lungs 9.

Having established their actions & Poisons — we proceed to inquire how they act in producing death 10. —

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11

It is probable they produce death by inducing Inability in y System to perform its Functions - Perhaps they act by destroying the Union of different Parts, rendering them incapable of emitting their various actions —— Perhaps they kill by inducing an indirect debility incompatible with Life — There are certainly many slow Poisons ——

Lecture 40th Jan.y 3tio -97.

Worms - They are found in every Part of the Body 1. Liver - 2. Bladder - 3. Throat - 4. They have been detected in y Frontal Sinuses - 5. Brain - 6. Alimentary Canal - which is their most usual Situation - Kinds of Worms are 1. Round or Lumbricales Worm - 2. Lumbricales - 3. Tinia or Tape Worm - This last consists many Parts - How are Worms formed? Of Milk of the Child's Mother - I think it is as natural to conclude that they are produced in Fetus from the Liquor in which they float as in Children from their Mothers Milk - I say Worms necessarily exist in the Body - I mean the Round Worm - The diseases produced by them are chiefly confined to the Alimentary Canal - They are the Effects and not the Cause of Fever - Mistaking the Effect for the Cause has produced

Idolatory in Medicine -

Just like the Indian whose untutored Mind
Sees God in Clouds and hears him in the Winds
Pope -

My Opinion have derived great support by hearing, by having they were adopted by the late Wm Hunter - Dr Saunders and many other eminent Physicians in Europe - They are sometimes the Cause of Chronic diseases - They produce many anomalous Symptoms in acute diseases - Worms and the Catamenia should never be lost sight of - the first in Children the latter in Women -

Anomalous Substances taken into the Alimentary Canal - Lungs - Nose & Skin - are not unfrequently Cause of disease - as Copper - Lead - Silver stone - Iron &c - Atoms getting into the Lungs produce disease and often Death - They are the antipodes of the System and prevent many Enemies from assailing the System — Buttons - Needles & Pins swallowed will produce disease - the two last, for many Years after they are swallowed will work into Muscles in different Parts of the Body and produce Ulcers of the most obstinate Kind[3] — Tetanus is frequently excited by Wounds which act upon the Muscles - It is therefore a Martial

Effect from a habitat Stimulus 4. your Way then. Jow of curing Tetanus brot on in this Manner, must be to throw the excessive Excitement of the muscular System into the arterial and other Systems and thereby producing an Equilibrium — Shot and Balls produce diseases. I have known that in the Muscles, produce Mania many Years afterwards 5. Paints and Pomatum applied to the external Surface will produce Diseases as Head-Ach &c owing to the Lead all these Preparations generally contain —

Costiveness - will produce Head-Ach. Sore Eyes on ye Bloodvessels 6. Piles - Inflamation of the Bowels - Suppression of Urine - Ruptures of every Kinds - Fevers &c

Retained Excretions - as Suppressed Perspiration produces dry Skin - Sneezing - Colic - Fever J. &c &c Obstruction of Bile produces Costiveness - Jaundice - Inactivity 8. Diseased Vision as every Object appear yellow &c. The Effects are Gall-Stones and Viscidity &c 9.

Are there any Diseases from ~~Retention~~ Retention of Semen? I answer No. unless there be uncommonly strong Venereal appetite. in which Case it will produce many same Symptoms, at length. Mania and death —

Obstruction of ye Menses will produce - Dyspepsia -

Dystinia, and many other diseases —

1st Motion & Rest - Sleep & Watchfullness in Excess, with the two more diseases - more of Motion hereafter -

2. Rest - Man, ever more to activity, must be subject to disease when Rest in Excess takes place -

3. Sleep - produces many diseases - 4. Watchfullness is a relative Term - 'Tis owing to the action of some stimulus upon y^e Mind - as Love - Grief - Debt - bold Fact &c. - Haller relates many remarkable Instances of morbid Watchfullness!! - It is relieved sometimes by Stimuli - at other Times by debilitating Remedies - It is remarkable that 8^th^ of L. Land: will procure Sleep sometimes, when an Hundred would not - & I have seen a couple of Pil: Asiatick - produce Sleep, when Opium in any Quantity would have no Effect -

Improper Exercise of y^e Faculties of the Mind! Understanding upon Health is a Stimulus - when exerted in a great degree, 12. it produces Dyspepsia - Costiveness - Mania &c^a^ - They are worse when accompanied by the Midnight Lamp - strong Passions - attentive Subject - The disproportion of the Subject to y^e age and Abilities of the Person - Dead Languages are certainly too strong Stimulants upon the Faculties of a Child - hence they debilitate the System & lay the Foundation for disease - 'Tis not like

cramming a new born Infant with Bacon and Chicken, instead of its mothers Milk 13. Are there any diseases produced from a Want of Understanding? No. — Passions. There are Love and Grief. the one acute, the other chronic. — to the causes of diseases —

Lecture 41st January 4th.

Love. acts differently as combined with Fear &c. It disposes to pensiveness. Melancholia. Hypochondriasis &c. A Person loves most when he is rejected by his Mistress.

Joy. a powerfull Stimulus. so much so as to occasion death in many Instances. It sometimes produces Madness &c. Political Joy most apt to produce Death. A Doctor Rush to Congress in Time of the late War. and also Man, died suddenly from the excess of Joy in hearing of the death of Cornwallis. There are Instances of Joy producing Suicide. a sudden accumulation of Wealth by producing excessive Joy will induce Death. Joy is most fatal when it acts upon Fear.

Anger. It was implanted in our Systems for useful purposes. tis a powerfull Stimulus. It produces Turgescence of the Vessels. Increase of Salivia. Epilepsy & Death &c. &c.

Grief. The duties of our Profession must frequently subject us to this State of the Mind. It has been known to terminate in Asphyxia and death. It is remarkable that when it attacks People subject to Hysteria it is changed to Hypochondriasis. In a small degree it excites the flow of Tears - in a greater degree the Tears return to flow. How shall we account for this? I answer that there is a sleeping Point in the System, above and below which no Tears will flow. It produces a change in the Countenance. Shuts the Lips - wrinkles the Face &c. In a certain degree it produces Sleep, by reducing the System to the sleeping Point —

Fear. does not exist unexpectedly - it depends on from Danger. Its morbid Effects are numerous - it produces Diarrhoea - Thirst - Epilepsy - Mania - Asphyxia - Death &c. I have particularly observed Thirst to be caused by Fear - in the flying Soldiers in the late War - when continual cry was "Water, Water" — Talking of the subject which produced Fear, aggravates it. I have seen persons Returning walking fast a Frame - Faces, will not be scared unless it be spoken of. — I have known Asthma excited, whenever they were interrogated con-

causing ther Asthmatic Complaints - Here an im-
portant Hint to Physicians 3. — It will render y^e
Hair erect on the Heads - It will turn it grey - and
I have read of an Instance where the Hair of the
Heads fell off in a very short Time from the
Effects of Fear - It acts on the Mind by exhilling
all ther Passions - 'Tis influenced by dutet - Impro-
ducing all the diseases of y^e nervous System - Dutet is a
real Evil - as y^e desire of Life. Fear acts with double
Force -

Terror is of a compounds Nature. -

Envy. It acts like a Irritated Blister or Issue 4. -

Ambition - It does not often produce disease except from
Disappointment. - 'Tis an inflammatory fever of y^e Mind -

Avarice - Many have died to use a common Expres-
sion, "In debt to their Backs and Bellies" - It abstracts
from a Country - a Neighbourhood - Family - Relations
&c. The following is an Epitaph, written on the Tomb-
stone of an avaricious Man -

"Here lies a Man, in cold Clay, clad,
"Who died for want of what he had" 5. —

Indulgence of y^e Venereal Appetite — when indulged
in a temperate Manner it seldom produces disease - Old
People cohabiting together has no bad Effects; but an
old Man will be diseased, often upon cohabiting with a
young Woman — Lascivious Ideas excited by Prints
Paintings &c &c which cause this Appetite into Action -

they excite to Anonigm - which produces a Num-
ber of the distressful Symptoms I am met with -
and Impotency - Despisic - Yawnorbea - &c -

Different Situation - I formerly remarked -

Different States of Society - They are divided in-
to Barbarous - Civilized - and Savage - each of w^h
have their different diseases - (vide my 1^st Vol: Inq: Chem:)

Different Governments - Irritability and Sensibi-
lity, show themselves in different Governments - The
Influence of Freedom will shortly establish an
Equilibrium of Irritability and Sensibility - This is
rapidly taking place in France - Freemen love of
whole World and with Liberty to y^e whole Family of
Mankind — Errors are opposed to Errors, &
Truths always harmonize with each other -
Physicians should be Freemen - You will scarcely
ever hear of an eminent Physician who does not
possess Principles of Republicanism 6

Different Religions - Religion is as spiritually ne-
cessary to Man, as air is to Respiration - Christia-
nity is most friendly to Health - Every Doctrine
which is unfriendly to Health, should be rejected
as false. —

Lecture 42.do January 5.to. 97.

Different Employments. The first Employment of Man was agriculture. Farmers most healthy. Carpenters are generally known to be long lived. from a steady Employment of Body and Mind. Farmers and Carpenters are subject to Fevers and accidents. Soldiers to Fevers &c. Sailors to Scurvy &c. Slaves are subject to diseases from wasting upon their Masters in cold wet &c. Mechanics are liable to diseases. Weavers are particularly subject to Dyspepsia. Tailors, the postures of their Person. invite to disease. Bakers. from living in damp Cellars &c. are subject to Pulmonic Complaints. from accurate Observations made in the City of London it has been found that the Life of a Baker was three Years. Smiths of every Kind. from their Exposure to Heat are liable to Inflamatory diseases. The Metals worked among also inimical to disease. as Lead &c. Studious People are subject to Head aches. Dyspepsia. hence Dyspepsia has been called Malum Studiosorum. Judges. are subject to Calculus. from a long Retention of their Urine. Clergymen to Consumption &c.

Lawyers and Physicians from the Eminence they undergo are not so subject to Dyspepsia Diseases - Country Physicians are subject to Costiveness - Piles - Rheumatism Gravel &c. - Fistula &c. &c. 4.

Different Amusements - Are hurtfull to y^e System - from Inclining to partake them by standing a long Time before a Looking Glass or under the Hands of a Barber - Improper Change of Dress - The Air of crowded Assemblies - Dancing is hurtful - I knew a Person who died suddenly in a fit of Apoplexy leading down a Country Dance 6. Theatre - produces nervous Diseases - Tragedies produce virtuous Sympathy; but I never knew them excite virtuous Actions - The Mind suffers from a Regurgitation of the Passions - It has been urged that Theatric Representations excite Virtue and Benevolence - I deny the Assertion - The Lady who this Moment wills weeps over a Tragedy - Novel or Romance, in the deepest distress, will next Moment - ring her Servants the common Necessaries of Life - and even drive from her Door y^e most miserable Beggar, with haughty Indignation 7. — — —

Peculiar Customs - 1. Drams in the Morning to eat as they say as an Antiphlogistic - 2. Wine and Bitters before dinner - is a very pernicious Custom

They are both very injurious — 3. Women running lying in Visits &c — 4. Ringing Funeral Bells seem Sails to sink the Spirits of a sick Patient — this Custom should certainly be examined. — Tobacco — If it was possible for one of our Inhabitants to be transported to one of the Plants — and there say we cultivated a Plant which was disagreeable to the Taste — that produced — Vertigo — Dyspepsia &c — &c he would certainly not be re-lieved — In no one Instance is it possible to view Man in a more degraded State than in the Use of Tobacco — Is a Stimulus — is similar to ardent Spirits — The Use of it is called for in studious People — Sailors &c Tars will excite to y Use of it — 'Tis also called for after Dinner — whenever you hear a Man call for a Segar after dinner, you may be sure he has ate too much — Snuff is to the Nose, what Cayenne Pep-per and ardent Spirits are to the Stomach — The Ap-petite for Tobacco is wholly artificial — 1. It impairs the Appetite — 2. It produces Indigestion from a waste of Saliva — 3. It produces various diseases — I have seen two Cases of Erisipelas, on my Segar — one of Consumption — Snuff produced Tumors in D.r Pringle — Destroys y Memory — The Want of it, after being long accustomed to y Use of it, produces ma-ny violent Symptoms — it has in some Instances produced Insanity, bordering on Insanity — This Weed acts upon the intellectual Faculties; but

will prevent no Contagion - It may be good to produce Emaceration - Segars are more than Pipes - because the Smoke comes into the Mouth much hotter, and the Tabacco is in contact with the Mouth - They destroy the Teeth - give the Breath an Ammoniac Smell - impair the Voice - give the Complexion a dusky appearance - Produce tumors on the Lips - The Use of it excites Thirst - to be allayed only by Wine or ardent Spirits - still more - After finding it is not natural to Man, we are naturally led to enquire the Use of this loathsome Weed - For the Food of a single Animal - the rich Rock-Deer, which roams on the Mountains of Africa -

Unhealthy Ancestors - The Diseases derived from ancestors are divided into 1. Congenial - 2. Hereditary - 1. The Congenial are 1. Small Pox - 2. Venereal disease - 3. Measles - 4. Plague - 5. Acute Leprosy - 6. Intemperate ones - Yaws - 2. Hereditary - depends on Shape & Temperament - 1. Consumption - which is generally derived from the Father - 2. Madness - which is generally derived from the Mother - General Montgomery who fell in the late War within the Walls of Quebec - used to wish that he might be gratified in in three Wishes 1. That he might have no Children - 2. That he might die before he arrived

* Diseases of Irregular position & Disease -

at the age of 50-3. that he might die suddenly- Tis remarkable that all his Wifes were gratified- His Parents were all subject to Madness at the age of 50- he therefore wished to die childless, if he might not entail so dreadfull a Malady to his Children- to die before 50. if he must avoid the disease- to die suddenly if he might not feel the Pain of dying- I never knew but one Instance of Madness appearing before Manhood- Gout- Hysterics- Hypochondriasm- Schirosula- Leprosy &c are all hereditary- tis very remarkable if these diseases will disappear in the second, and appear in the third and fourth Generation- Head-ach is also hereditary- Tis therefore necessary Gent:, you should enquire into the Diseases of your Patients Ancestors- particularly if they labour under chronic Diseases. — . — . —

Lecture 43d Jan y 6th

On injudicious Confidence in false Systems of Medicine- in the Operations of Nature- and in Quacks- have produced these diseases — 1. False Systems of Physic- from Hippocrates to Dr Brown have all played their thousands- except when a Physician of Judgment corrects in his Practice their erroneous Princi-

plus – The Physician will perhaps be most successfull who honours a little from each of them – Many Hundreds died from having upon a Vegetable diet, after Dr. Thyne's Publication on Regimen – Many have died from taking Opium, upon the Supposition of its being a Sedative according to Dr. Cullen. while equally as many have died from the use of Opium, almost invariably according to Dr. Brown – whose diseases are nearly all of the Asthenic Kind – &c – There is such a Thing as Truth in Medicine, and tho I may flounder an an Ocean of Uncertainty during my Life, I doubt not but Truth will yet be the firm Support of future Physicians – I believe the Time will yet come when two Years will be sufficient to acquire a Knowledge of Medicine – I am sure those who now attend to the present System of Medicine will know as much in two Years as their Predecessors acquired in nine – In those diseases which we now fail of curing – I must think for myself – that is because I have adapted an improper Theory. 3. —

2. An injudicious Confidence in the Operations of Nature - for a full account, vide Vol. 1st & 2d Inquir: and Amer: - I will only observe, that even in this enlightned age Nature is the Pagoda of many Physicians - 3. Quacks have certainly destroyed their Thousands -

The imprudent or Unnatural Use of Remedies without or with the Advice of a Physician - 1. Purges from Unnatural Use, disposes to Costiveness - Also as a Purge disposes to Hemorrhois - Salts to a debility of the Bowels &c. 2. Vomits - to Dyspepsia &c. Ruptures of all Kinds &c. 3. Bitters - induce indirect debility - Dyspepsia - disposes to Gout &c. altho they be good when properly directed - yet I know of no one Bitter that is Naturally safe. 4. Tartar is the best of all known Tonics, combined with a mild vegetable Diet - 4 Nitre - to Dyspepsia and Cholic &c. 5. Opium - to Tumors - debility &c. 6. Bloodletting habitually, as it often is in the Spring, disposes to Plethora - Apoplexy &c. - 7. Diaphoretics improper - 8. - Cold Bathing - 9. Pediluvium - is a very popular Remedy, and as often applied wrongfully as rightly - In Indisposition to Diseases it

has often been of immense Service; but when a morbid Excitement prevails in the System, I have seen it produce Delirium - and in fact increase every Symptom - The same Remedy therefore we see will kill and cure - 10. Diet-Drinks - 11. Exercise in Bed is certainly hurtfull - 12. Quack Remedies of all Kinds have swelled the Bills of Mortality - Godfrey's Cordial has destroyed many Children - Turlington's Balsam &c &c &c &c

I have seen three Drops of Laudanum, in a Cup, unusually produce - Cholic - Strangury - This is the Case with many the Medicines in particular Persons - 'Tis owing to a particular Idiosyncrasy in certain Constitutions. Antient Phil: will not blame new Brethren in Medicine -

Sympathy & Antipathy - This Point is a thorny Subject - Palpg. from Sympathy has spread thro' a Company - Sore Eyes and Convulsions are often contracted in ye same Manner - Of Convulsions, there was a remarkable Instance in the Orphan Hous at Haarlem, where a Child was seized with Epilepsy

and from it a Number took it - Stuttering is often communicated in the same Manner, without a Consciousness of it - with a Thousands other Instances of a similar Nature - The Muscles are set into action involuntarily - How shall we account for these facts? I answer - Man is an imitative Animal — Dr. Johnston, when a Boy at School, while at Play, suddenly left it from an Impulse of his Father was dead - This, however strange it may appear, was a Fact, for a Letter which a few days after arrived, convinced him that his Father died at that very Moment - This Fact is corroborated by many other similar indisputable ones - I have often endeavoured to disbelieve any such Thing - but Facts make me believe it - Tho I cannot account for it - dies docuit -

There is a particular attachment to Relations in the last Hours of Life - we there see Fathers forgiving Children who have heavily displeased them & even remembering them in their Wills - &c. I am of Opinion that there is a secret Sympathy in Souls - that we all die at Peace with this World - and that we will all be friendly in y World to come —

Antipathies - They are often congenial - being born with us - There is a congenial Antipathy to Water - to Swords - ~~if Cats~~ King James was born with an an Antipathy to a Sword - to Cats - to Dogs &c.a -

There are Associated Antipathies - I mentioned Association of Ideas - it is important to understand it - Associations of Attotions - are explained by Facts - for when we go to Bed, we make Water even tho we have made it but a short time before &c.a - Dr. Darwin, has singled this Principle and applied it in the most judicious Manner - 'tis this explains Juvenile diseases - Epilepsy - Intermittents &c.a - By seeing a Patient laboring under an Intermittent in a dark Room - if Ague has been destroyed - because if Association of Light was obstructed - Opium by bringing on new Impressions and destroying Associate ones has also cured Ague -

Accidents - (vide Bell) 'Tis remarkable if diseases are often produced long after if Application of Causes - Hence, I must now lightly, a stroke of the Head, how trifling soever the Causes -

First - in old age &c.a vide my 2.d Vol: Inq: & Obsv: -

This Gentlemen finishes the Remote Causes of Diseases - We now proceed to enumerate.

Lecture 44th to Jany 9th - 97 -

The Predisposing Causes of Diseases - which are natural and artificial - 1. Those which are natural occur in

1. Different Ages, as in 1. Infancy from ① Disproportion of ye Head to ye Body: which predisposes to Hydrocephalus Internus - &c. ② The Closing of ye Sutures to Hydrocephalus externus &c - ③ Excess of Excitability - There is more Excitability, however strange it may sound in Infancy - hence Convulsions - diseases of ye Stomach and Bowels - ④ Dentition - this not only produces painfull swelled Gums - restlessness - Convulsions &c but I have seen it produce swelling of ye Glands in ye Groin - and Gonorrhoea - ⑤ - ⑥ 7. Passions - 8. Worms - 2. Childhood & Puerility The diseases of Infants nearly apply here - Excitability still predominating - There is a great Mortality of Children under 7 Years of age - owing to an Excess of vital Matter - 3. Puberty - to 1. Febrile diseases of an inflamatory Nature - ② Phthisis -

Catarrh - Dimonthasis - (3) Dyspepsia - (4) Hypochondriasis - (5) Swelling behind the Ears &c.
(6) Unusual Desire - from an unusual unnatural appetite - Finales at this Age are predisposed to ye same diseases, except ye unusual - In addition they are predisposed to a vitiated appetite - Chlorosis - Fluor Albus - &c.
4. Adolescency & Manhood - To febrile diseases which annually fall on ye Lungs - hence Consumption - 5. Arterial Plethora prevails in Youth. Venous Plethora in old Age - 'Tis in the Struggle between ye arterial and venous Plethora we discover Headachs &c. - At ye Age of 40 ye System is regular and healthy - 'tis here like the Aolian Harp with a regular Breeze is always in Tune - 6. Old Age - 1. His Eyes sight begins to fail - hence he first begins to die at his Eyes - 2. The Sphincter of ye Bladder is relaxed - hence their frequent desire to make Water - From 57 to 63 ye System is predisposed to Cholic &c. - From 63 to ye Close of Life ye System gradually decays - it is here a second Childhood is produced - here there is a predominance of Excitability - between 80 and 90 there is an Excess of Stimulatability - hence we here feel ye slow, strong Pulse - and here there

is a disposition to Inflamatory diseases - Dr. Thouet and Dr. Franklin - between 80 and 90 died of acute inflamatory diseases. The Fluids of old People become acid - hence in old age bubling sores terminate in Cancers and Bruises in Mortification - Muscular Weakness attends old age - hence y shaking Heads and Hands - in y alimentary canal, Costiveness —

II. In different Conditions of y System - as in 1. different Temperaments - They seldom develope themselves till after Infancy. They are 1. Nervous - which disposes to Madness - Epilepsia - Asthma &c. (2) Sanguineous - to Fevers &c. (3). Bilious - to Jaundice - Cholic &c. (4). Phlegmatic - Medicines operate differently on People as they are predispond to y above different Temperaments — The Temperaments Print: should never be lost sight of. 2. Different Conditions of y System in single & married Life - 1. Celibacy is not without its Dangers - Remember Gentlemen a Batchelor's Life is a good Breakfast - a tolerable Dinner; but a very bad Supper - According to Dr. Dunman more single Males and Females die than married - New married Men are liable to Diseases, from Causes too obvious to mention - not so with Women — The Desire of Progeny in Men I believe arises from

Vanity and fear of Shame - In Women their Desires are truly great - I have often seen them with tears in their Eyes - because they were barren - I know a barren wealthy Lady in this City who has often declared to me, that she would exchange her Life for a Beggar, barely to be Pregnant - 3. Pregnancy - Contagious desires, when pregnant Women frequently change Hats - small Pox always more severe - Plasm & Yellow Fever / unless Bloodletting is used / will produce Abortion &c. Pregnancy disposes to - Insupportable Pain - Cholic - Vertigo - Mania - Sucking Children dispose to Pulmonary Consumption - &c. 12. Suppression of Milk to Swelling - Schirrus & Cancer - 4. The Period of its Cessation of its Menses is marked by desires - The System becomes Plethoric - the desires at this Period may all be prevented by a seasonal Use of Bloodletting - Laxatives - Low-diet - and Exercise - I beg leave Gent: to refer you to Dr. Pothergill 13. 5. Deformity in Size or Conformation of the Whole or any Part of the Body 14. Tall People are understood to desire Activity - Dwarfs are generally shortlived 15. Men who grow very fat before the age of 40 are also generally shortlived -

Large Heads and short Necks disposes people to Apoplexy &c. - Narrow Chest to diseases of the Chest - 16.
Many say the Deformity of particular Parts disposes to venereal Appetite — 6. Congenial Weakness - seven Month Children are generally unhealthy — 2. Artificial ~~diseases~~ - Causes are all linked. They all proceed from one Cause —
III. Occasional Causes - They act upon the Predisposition and produce diseases. —

Lecture 45th January 10th — to 60

We now come to an important and difficult subject. IV. The Proximate Causes of Diseases - They are the last Link in the Chain - They are the Diseases themselves: It is a morbid Excitement or irregular action - These Causes are general & partial 1. The general Causes affect the whole System directly or indirectly - In general Diseases we divide the Body into seven Systems - Every System sympathizes with another - One being affected affects the other - I was first led to discuss this Sympathy from 1. Diseases, which were not local travelling from System to System - 2. From specific Stimuli - 3. From the action of different Medicines - for Instance Bark acts primarily upon

The Arterial System - Gentian and Colombo upon
the Stomach and Alimentary Canal - Asafoetida
on ye Nerves - Stammonium on ye Brain - Oil
of Amber on the Muscles - Mercury on ye Glands
and Lymphatic System - Opium acts upon
all the Systems - particularly ye Brain - hence
it has been called Medicina Mentis - 4. From
Medicines relating one Part and by Sympa-
thy, other Parts - Truths like Matter are inde-
structible - however debatable - + will at last become useful -
1. Body is generally
affected thro' ye medium of ye Sanguineous Sys-
tem - The Arteries are the Authors of ye Body -
they terminate on ye external Parts - there they re
ceive ye first Shocks - what is called Fever -
I have refer you Cont. to my 4th Vol: until
I come to treat more fully on this Subject -
2. The Nervous System is the next Barrier - in
this we include ye Minds - Brain - Nerves and Muscles
Tho' Tetanus is a Disease of the Muscles - so far
from its affecting the Nerves - that they are generally
rendered insensible - Debility is evidently the
innate Cause of this Disease - Chorea Sancti Viti -
a disease of irregular action - 3. Cramps arise from
indirect debility as in swimming &c from violent

Evacuations - from direct Debility as in Cholera Morbus - 3. Convulsions, often sometimes in the Beginning of Fever and from Dentition - 4. Hooping Cough - a Disease of ỹ Muscles of ỹ Larynx & Glot. - 5. Singultus - a Disease of ỹ Muscle called Diaphragm. Bloodletting here Prest: is ỹ Remedy - 6. Asthma - is a disease originally of ỹ Muscles - I include here, ỹ Cynanche Trachealis Spasmodica - connected wᵗʰ it is Angina Pectoris - 7. What shall we say of ỹ Heart? connected solely to no one System, it is an acquaintance of all - tis subject to muscular diseases. 8. Rigidity & Contraction of ỹ Muscles of ỹ Neck - 10. Stuttering - These are all involuntary - they are divided into Tonic and clonic Spasms - Tonic is Spasm properly so called - clonic - is convulsion - 2. Nerves - I exclude Pain from ỹ diseases of ỹ Nerves tis only a Symptom - 1. Here is a morbid Irritability in this Class - 2. Here is a morbid Insensibility as ỹ Leprosy - 3. Here is an exclusive Connection between ỹ Nerves and Brain - The Fidgetts is an exclusive disease of ỹ Nerves - For a particular Detail of ỹ Diseases of this Part I refer you to Dr. Darwins' Zoonomia - 3. Brain - is affected with Vertigo - Low Spirits - first Stage of Hydrocephalus internus - Here which affect different Parts at ỹ same Time as Palsy, it affects ỹ Nerves & Muscles -

The Ariſtocrat getting flogg'd.

Wiſdom and Cunning.

The Riding Party.

The Toad and the Gold-fish.